

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
5 August 2004 (05.08.2004)

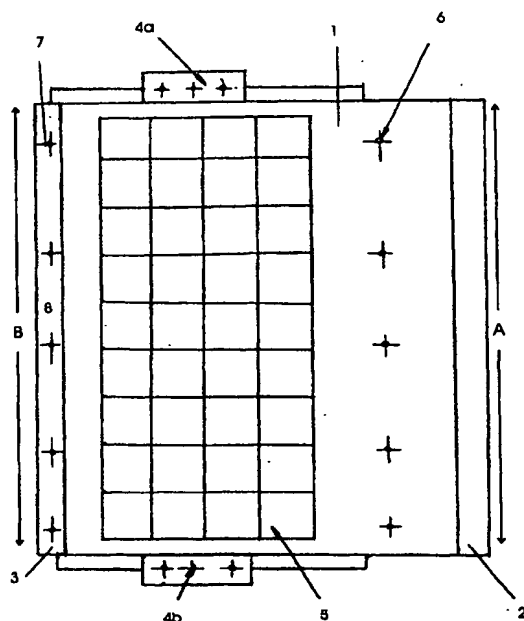
PCT

(10) International Publication Number
WO 2004/066351 A3

- (51) International Patent Classification⁷: **H01L 31/042**, F24J 2/52
- (21) International Application Number: PCT/GB2004/000222
- (22) International Filing Date: 20 January 2004 (20.01.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0301280.4 21 January 2003 (21.01.2003) GB
- (71) Applicant (for all designated States except US): **SOLION LTD** [GB/GB]; Southbank Technopark, 90 London Road, London SE1 6LN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DUKE, Mike David** [GB/GB]; 188 Queen Anne Avenue, Bromley, Kent BR2 0SF (GB). **SALAM, Loey, Abdl** [GB/GB]; 22 Grosvenor Court Mansions, Edgware Road, London W2 2JH (GB).
- (74) Agent: **COHEN, Alan Nicol**; 2 Grove Place, Tatsfield, NR Westerham, Kent TN16 2BB (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: MOUNTING FOR SOLAR PANELS



(57) Abstract: A mounting for solar panels which mounting comprises a frame (1) having a recess for receiving at least one solar panel (5), the frame (1) having a front edge (2) and a rear edge (8) in which the front edge is narrower than the rear edge (8) and the front edge (2) of one frame (1) is adapted to fit beneath and inside the rear edge (8) of another frame (1) and to be attached to the said other frame (1), the frame (1) having side fixing means (4a, 4b) so that a plurality of frames (1) can be attached to each other in a side-by-side arrangement and the frame (1) sloping upwards from the front to the back.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
23 September 2004

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/000222

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L31/042 F24J2/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F24J H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 746 839 A (DINWOODIE THOMAS L) 5 May 1998 (1998-05-05) column 4, line 55 - line 57 column 5, line 1 - line 14; figures 1c,1d column 7, line 1 - line 23; figures 3c,3d	1-4,6,8, 12,13, 15,16
X	US 5 706 617 A (HIRAI KEISUKE ET AL) 13 January 1998 (1998-01-13) column 34, line 7 - line 38; figures 57,61-63	1,5, 9-12,15, 16
X	DE 30 12 111 A (LUDOWICI MICHAEL CHRISTIAN) 8 October 1981 (1981-10-08) page 30, paragraph 4 - page 32, paragraph 4; figures 3,7	1,5, 8-13,15, 16
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

15 July 2004

Date of mailing of the international search report

23/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Mootz, F

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/000222

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 299 13 860 U (RENGHART ANDREAS) 2 December 1999 (1999-12-02) the whole document	1, 2, 5, 12, 14-16
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) -& JP 2000 064523 A (MISAWA HOMES CO LTD), 29 February 2000 (2000-02-29) abstract; figures	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/000222

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5746839	A	05-05-1998	AU 721231 B2 AU 2461097 A CA 2249350 A1 EP 0892877 A1 JP 2000508393 T WO 9738185 A1	29-06-2000 29-10-1997 16-10-1997 27-01-1999 04-07-2000 16-10-1997
US 5706617	A	13-01-1998	JP 3092078 B2 JP 6158798 A JP 3092080 B2 JP 6229080 A AU 669399 B2 AU 5034593 A CA 2102754 A1 CN 1087696 A EP 0599497 A1 NO 934174 A US 5497587 A	25-09-2000 07-06-1994 25-09-2000 16-08-1994 06-06-1996 02-06-1994 20-05-1994 08-06-1994 01-06-1994 20-05-1994 12-03-1996
DE 3012111	A	08-10-1981	DE 3012111 A1 AT 21965 T DK 395980 A ,B, EP 0026862 A2 NO 802754 A	08-10-1981 15-09-1986 10-04-1981 15-04-1981 10-04-1981
DE 29913860	U	02-12-1999	DE 29913860 U1	02-12-1999
JP 2000064523	A	29-02-2000	NONE	